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MUSERLIAN, LUCAS AND MERCANTI, LLP			ANDERSON, REBECCA L	
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NEW YORK, NY 10016			1626	

DATE MAILED: 04/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/089,993

Applicant(s)

CHABRIER DE LASSAUNIERE ET
AL.

Examiner

Rebecca L. Anderson

Art Unit

1626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 January 2005.
2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 14, 15 and 22-25 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-6, 14, 15 and 22-25 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____

DETAILED ACTION

Claims 1-6, 14, 15 and 22-25 are currently pending in the instant application and are rejected.

Response to Amendment and Arguments

Applicants' amendment filed 27 September 2004 and the subsequent response, filed 20 January 2005, to the improper amendment letter have overcome the objections to claims 1, 2, 4 and 5 as containing informalities.

In regards to the 35 USC 112, first paragraph rejection, applicant has amended the claims from a method of inhibiting monoamine oxidases and lipidic peroxidation and modulating activity vis-à-vis sodium channels, to a method of treating disorders of the central or peripheral nervous system and stated that this is supported by the specification as filed. Furthermore, applicant has stated that the examiner was of the opinion that the recitation of inhibiting monoamine oxidases and lipidic peroxidation and modulating activity was too broad and not adequately supported by the specification. However, the 35 USC 112, first paragraph rejection is maintained since, as seen in the office action mailed, 28 June 2004, claims 23-25, which state the treatment of specific diseases were included in the lack of enablement rejection as lacking enablement in the instant specification. Furthermore, as stated on page 4 of the previous office action, while applicants invention was directed to a method of inhibiting monoamine oxidases and lipidic peroxidation and modulating activity vis-à-vis sodium channels, while the claims did not state, "for the treatment of disorders", the claims were drawn to the treatment of disorders since "inhibiting monoamine oxidases", "inhibiting lipid

Art Unit: 1626

peroxidation" and "having a modulatory effect relative to sodium channels" cannot be considered on their own to be a therapeutic application and once the mechanism of action of a substance has been discovered, it leads to a practical application in the form of an actual treatment for a disorder. Therefore, the treatment of disorders of the central or peripheral nervous system was included in the previous office action's enablement rejection as lacking enablement, for example, the lack of enablement of the treatment of Alzheimer's disease is discussed in the 35 USC 112, first paragraph rejection of the previous office action on page 5 and the lack of enablement for the treatment of AIDS is discussed on pages 6 and 7.

Claims 1 and 14 were rejected under 35 USC 112, second paragraph, as being indefinite in the expression in which Het is a heterocycle with 5-memberes comprising two heteroatoms in claim 1 and the expression in which Het is formula (I)³ in claim 14. While applicant has deleted the inappropriate phrase from claim 1, the phrase in claim 14 is still present and the rejection under 35 USC 112, second paragraph is maintained.

In regards to the obvious type double patenting rejection of the claims as being unpatentable over claims 1 and 2 of copending application Serial No. 10/681,002, applicant believes that the limitation of the present claims obviates this ground of rejection. However, the rejection is maintained, since the copending claims 1 and 2 of US Serial No 10/681,002, while not stating "for the treatment of disorders", the claims are drawn to the treatment of disorders since "inhibiting lipidic peroxidation and/or inhibiting the monamine oxydase and/or modulating sodium channels" cannot be considered on their own to be a therapeutic application and once the mechanism of

Art Unit: 1626

action of a substance has been discovered, it leads to a practical application in the form of an actual treatment for a disorder. Furthermore, claim 2 discloses a species of applicants instant formula (I)3 and the specification of 10/681,002 discloses the diseases considered treatable by inhibiting lipidic peroxidation and/or inhibiting the monamine oxydase and/or modulating sodium channels are, for example, Parkinson's disease, Alzheimer's disease, Huntington's chorea and pain. It is also noted that applicants claims 23-25, which did specify the treatment of diseases was included in the obvious type double patenting rejection in the office action mailed 28 June 2004.

Applicants amendment to claim 1 to amend the claims a method of treating disorders of the central or peripheral nervous system has necessitated an objection of claim23 for failing to further limit the claim from which it depends.

Claim Objections

Claim 23 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Specifically, claim 23 is the method of claim 1 used for treating disorders of the central or peripheral nervous system. However, claim 1, as amended is already for the treatment of disorders of the central or peripheral nervous system.

Maintained Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

Art Unit: 1626

art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-6, 14, 15 and 22-25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In In re Wands, 8 USPQ2d 1400 (1988), factors to be considered in determining whether a disclosure meets the enablement requirement of 35 U.S.C. § 112, first paragraph, have been described. They are:

1. the nature of the invention,
2. the state of the prior art,
3. the predictability or lack thereof in the art,
4. the amount of direction or guidance present,
5. the presence or absence of working examples,
6. the breadth of the claims,
7. the quantity of experimentation needed, and
8. the level of the skill in the art.

The nature of the invention

The nature of the invention is the treatment of disorders of the central or peripheral nervous system in warm-blooded animals specifically, disorders of the central or peripheral nervous system (claims 1 and 23), Parkinson's disease, Alzheimer's disease, Huntington's chorea, amyotrophic lateral sclerosis, peripheral neuropathies (claim 24) and pain (claim 25) with the administration of the compound of formula (I)3 in an effective amount sufficient to inhibit monoamine oxydases and lipid peroxidation and a modulating activity vis-à-vis sodium channels.

The state of the prior art and the predictability or lack thereof in the art

Art Unit: 1626

The state of the prior art is that it involves screening *in vitro* and *in vivo* to determine which compounds exhibit the desired pharmacological activities (i.e. what compounds can treat which specific disease). There is no absolute predictability even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic or preventive regimen on its face.

The instant claimed invention is highly unpredictable as discussed below:

It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. In *re Fisher*, 427 F.2d 833, 166 USPQ 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute. In the instant case, the instant claimed invention is highly unpredictable since one skilled in the art would recognize that in regards to therapeutic effects of disorders, whether or not the disease is effected by inhibiting monoamine oxidases and lipidic peroxidation and modulating activity vis-a-vis sodium channels would make a difference.

It is the state of the art that there is no known cure or prevention for Alzheimer's disease and that there are only four medications available in the United States available to temporarily slow the early stages of Alzheimer's disease. The current drugs for the treatment of Alzheimer's disease, Aricept, Exelon, Reminyl and Cognex, treat early stages of Alzheimer's disease by delaying the breakdown of acetylcholine. Memantine, which blocks excess amounts of glutamate treats late stage Alzheimer's disease.

Art Unit: 1626

(URL:<http://www.cnn.com/2003/HEALTH/conditions/09/24/alzheimers.drug.ap/index.html>).

It is the state of the prior art that autoimmune diseases include acquired immune deficiency syndrome (AIDS) which is the result of an infection with the human immunodeficiency virus (HIV). This virus attacks selected cells of the immune, nervous, and other systems and impairs their proper function. HIV infection may cause damage to the brain and spinal cord via encephalitis (inflammation of the brain) and meningitis (inflammation of the membranes surrounding the brain). It can also cause nerve damage, difficulties in thinking (i.e., AIDS dementia complex), behavioral changes, poor circulation, headache, and stroke. AIDS-related cancers such as lymphoma and opportunistic infections (OI) may also affect the nervous system. Neurological symptoms may be mild in the early stages of AIDS, but can become severe in the final stages. Complications vary widely from one patient to another. Cerebral toxoplasmosis, a common OI in AIDS patients, causes such symptoms as headache, confusion, lethargy, and low-grade fever. Other symptoms may include weakness, speech disturbance, ataxia, apraxia, seizures, and sensory loss. Progressive multifocal leukoencephalopathy (PML), a disorder that can also occur in AIDS patients, causes weakness, hemiparesis or facial weakness, dysphasia, vision loss, and ataxia. Some patients with PML may also develop compromised memory and cognition. There is no cure for AIDS but recently developed treatments help to slow the progression of the disease. Some neurological symptoms and complications may improve with treatment. For example, antidementia drugs may relieve confusion and slow mental decline.

Art Unit: 1626

Infections can be treated with antibiotics. Radiation therapy may be needed to treat AIDS-related cancers present in the brain or spinal cord. The overall prognosis for individuals with AIDS in recent years has improved significantly because of new drugs and treatments. AIDS clinicians often fail to recognize neurological complications of AIDS. Those who suspect they are having neurological complications should be sure to discuss these with their doctor. The NINDS supports a broad spectrum of basic and clinical research studies on the neurological complications of AIDS. Much of this research is conducted at leading biomedical research institutions across the country.

(http://www.ninds.nih.gov/health_and_medical/disorders/aids.htm)

Hence, in the absence of a showing of correlation between all the disorders claimed, which includes AIDS, see page 1 the specification, and Alzheimer's disease, as capable of treatment by inhibiting monoamine oxidases and lipidic peroxidation and modulating activity vis-a-vis sodium channels one of skill in the art is unable to fully predict possible results from the administration of the compound of formula (I)³ due to the unpredictability of the role of the inhibiting monoamine oxidases and lipidic peroxidation and modulating activity vis-a-vis sodium channels, and since the treatment of Alzheimer's disease is mediated by the breakdown of acetylcholine or the inhibition of excess amounts of glutamate.

The amount of direction or guidance present and the presence or absence of working examples

The only direction and guidance present in the specification is a list of disorders on pages 1, 2 and 69 that applicant considers treatable by inhibiting monoamine

Art Unit: 1626

oxidases and lipidic peroxidation and modulating activity vis-a`-vis sodium channels and bond reactions on pages 171-174. There is no correlation between inhibiting monoamine oxidases and lipidic peroxidation and modulating activity vis-a`-vis sodium channels with any disorder let alone Alzheimer's disease or AIDS and the specification does not provide any pharmaceutical data for the treatment of any specific disorder, i.e. the specification is silent and fails to provide guidance as to what diseases are mediated by inhibiting monoamine oxidases and lipidic peroxidation and modulating activity vis-a`-vis sodium channels. There no other guidance or direction present as to what autoimmune diseases can be treated and there is no guidance as to how these other diseases can be treated or prevented.

The breadth of the claims

The breadth of the claims is the treatment of disorders of the central or peripheral nervous system in warm-blooded animals specifically, disorders of the central or peripheral nervous system (claims 1 and 23), Parkinson's disease, Alzheimer's disease, Huntington's chorea, amyotrophic lateral sclerosis, peripheral neuropathies (claim 24) and pain (claim 25) with the administration of the compound of formula (I)3 in an effective amount sufficient to inhibit monoamine oxydases and lipid peroxidation and a modulating activity vis-à-vis sodium channels.

The quantity of experimentation needed

The quantity of experimentation needed is undue experimentation. One of skill in the art would need to determine what disorders out of all disorders would be benefited by the inhibiting monoamine oxidases and lipidic peroxidation and modulating activity

Art Unit: 1626

vis-a-vis sodium channels and would furthermore then have to determine which of the claimed compounds would provide treatment of the disorder.

The level of the skill in the art

The level of skill in the art is high. However, due to the unpredictability in the pharmaceutical art, it is noted that each embodiment of the invention is required to be individually assessed for physiological activity by in vitro and in vivo screening to determine which compounds exhibit the desired pharmacological activity and which diseases would benefit from this activity.

Thus, the specification fails to provide sufficient support of the broad use of the compound of the formula (I)3 for the treatment of disorders of the central and peripheral nervous system by administering the compound of the formula (I)3 in an effective amount sufficient to inhibit monoamine oxidases and lipidic peroxidation and modulating activity vis-a-vis sodium channels. As a result necessitating one of skill to perform an exhaustive search for which disorders can be treated by what compounds of formula (I)3 in order to practice the claimed invention.

Genentech Inc. v. Novo Nordisk A/S (CA FC) 42 USPQ2d 1001 , states that " a patent is not a hunting license. It is not a reward for search, but compensation for its successful conclusion" and "[p]atent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

Therefore, in view of the Wands factors and In re Fisher (CCPA 1970) discussed above, to practice the claimed invention herein, a person of skill in the art would have to

Art Unit: 1626

engage in undue experimentation to test which disorders can be treated by the compound encompassed in the instant claims, with no assurance of success.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 14 recites "wherein Het is formula (I)3 in which". There is insufficient antecedent basis for this limitation in the claim since, again, there is no "Het" in claim 1. The claimed invention has been limited by amendment to the methods using only the formula (I)3. This rejection can be overcome by deleting the statement from the claim.

Maintained Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double

Art Unit: 1626

patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-6, 14, 15 and 22-25 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 2 of copending Application No. 10/681002. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Applicants instant claims are drawn to the treatment of disorders of the central or peripheral nervous system in warm-blooded animals specifically, disorders of the central or peripheral nervous system (claims 1 and 23), Parkinson's disease, Alzheimer's disease, Huntington's chorea, amyotrophic lateral sclerosis, peripheral neuropathies (claim 24) and pain (claim 25) with the administration of the compound of formula (I)3 in an effective amount sufficient to inhibit monoamine oxydases and lipid peroxidation and a modulating activity vis-à-vis sodium channels.

Ascertaining the contents of the copending applications claims 1 and 2

Claim 1 of the copending application claims a method of inhibiting lipidic peroxidation and/or inhibiting the monoamine oxydase and/or modulating sodium channels in a patient in need thereof comprising administering to warm-blooded animals the compound of the formula (I)G wherein Het can be, for example, (I)g3, A can be, for example, c) Q substituted phenyl, B can be, for example, hydrogen or alkyl, Y is O or S,

Art Unit: 1626

R1 can be, for example, hydrogen, R2 can be, for example hydrogen, n can be an integer from 0 to 6 and A is NR₄₆R₄₇ or OR₄₈. Claim 2 of the copending application claims a method of inhibiting lipidic peroxidation and/or inhibiting the monoamine oxydase and/or modulating sodium channels in a patient in need thereof comprising administering to warm-blooded animals the compound of, for example, 2,6-ditert-butyl-4-(4-{2-[methyl(2-propynyl)amino]ethyl}-1,3-oxazol-2-yl)phenol which is within the scope of applicants instant utilized formula (I)₃. Copending claims 1 and 2 US Serial No 10/681,002, while not stating "for the treatment of disorders", the claims are drawn to the treatment of disorders since "inhibiting lipidic peroxidation and/or inhibiting the monamine oxydase and/or modulating sodium channels" cannot be considered on their own to be a therapeutic application and once the mechanism of action of a substance has been discovered, it leads to a practical application in the form of an actual treatment for a disorder.

***The difference between the instant claims and the copending applications
claims 1 and 2.***

The difference between the instant claims 1-6, 14, 15 and 23-25 and the copending claim 1 is that the compound utilized in the copending claim 1 encompasses the instant compound of the formula (I)₃ utilized in the instant invention and the method of claim 1 of the copending application encompasses the specific disorders claimed in applicants instant claims 23-25.

The difference between instant claims 1-6, 14, 15 and 23-25 and copending claim 2 is that while the claim 2 contains the compound, page 267, line 28, 2,6-ditert-

Art Unit: 1626

butyl-4-(4-{2-[methyl(2-propynyl)amino]ethyl}-1,3-oxazol-2-yl)phenol, which anticipates the instant compound (I)3 utilized in the instant methods, the method of claim 2 encompasses the instant disorders specifically found in the instant claims 1-6, 14, 15 and 23-25.

Resolving the level of the skill in the art

Although the instant claims 1-6, 14, 15 and 22-25 differ in scope from those of copending claims 1 and 2. The claims are obvious over the copending claims since claim 2 of copending application claims the method of inhibiting lipidic peroxidation, inhibiting the monoamine oxydase or modulating sodium channels in a patient in need thereof by administering 2,6-ditert-butyl-4-(4-{2-[methyl(2-propynyl)amino]ethyl}-1,3-oxazol-2-yl)phenol (page 267, line 28) which anticipates instant claims 1-6, 14, 15 and 22-25 and since the copending claim 1 encompasses that which is instantly claimed in claims 1-6, 14, 15 and 22-25 and preferences towards applicants instantly utilized formula (I)3 is found in claim 2 which claims a species of applicants instant formula (I)3, inhibiting lipidic peroxidation, inhibiting the monoamine oxydase or modulating sodium channels in a patient in need thereof by administering 2,6-ditert-butyl-4-(4-{2-[methyl(2-propynyl)amino]ethyl}-1,3-oxazol-2-yl)phenol (page 267, line 28) and preferences towards specific diseases treated is found in the copending specification on page 99, which states that particularly the compounds are useful for treating, for example Parkinson's disease, Alzheimer's disease, Huntington's chorea and pains.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Art Unit: 1626

Closest Prior Art

The closest prior art is EP 0908180 which discloses compounds for the treatment of pain which differ from applicants instant compound of the formula (I)3 by applicants substituent Ω . The prior art compound has O-Ar group in the position equivalent to applicants Ω wherein Ar is phenyl or pyridinyl. Applicants Ω when comprising oxygen, is O-R4 wherein R48 is hydrogen, alkyl, alkynyl or cyanoalkyl.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rebecca L. Anderson whose telephone number is (571) 272-0696. Mrs. Anderson can normally be reached Monday through Friday 5:30AM to 2:00PM.

Art Unit: 1626

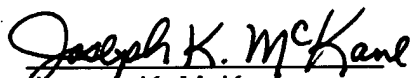
If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Joseph K. McKane, can be reached at (571) 272-0699.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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